

BARNABISHVILI, Iosif Barnabovich

[Vegetation of the Borzhomi Canyon; a monograph]  
[Rastitel'nost' Borzhomskogo ushchel'ia; monografiia.  
Tbilisi, Gruzinskii sel'khoz. in-t] 1965. 206 p. [In  
Georgian] (MIRA 18:8)

USSR / Farm Animals. Rabbits.

Q-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 64526

Author : Pantskhava, A.; Chkheidze, T.; Barnabishvili, N. K.

Inst : Not given

Title : Study of the Galactogenic Properties of the Oriental Galega

Orig Pub : Materialy 12-y Nauchn. konferentsii, posvyashch. 25-letiyu  
Gruz. zootekhn.-vet. in-ta, Tbilisi, 1957, 30-31.

Abstract : The juice of the Oriental Galega, which has diuretic and diaphoretic properties, was administered to experimental lactating rabbits. The dose of the juice was 2 ml. twice a day. The daily gain of suckling rabbits served as a measure of the secretion of milk. The average daily gain of the experimental young on the third week of their lives was 39 g., and in the controls, 24.7 g. It is supposed that Oriental Galega has a galactogenic effect. In addition, the juice was producing erythrocytosis in rabbits on the 6th-9th day of the feeding of juice to them.

Card 1/1

BARNABISHVILI, N.K.

Some data on sedimentation tests with exudates, transudates,  
and blood serum in various diseases. Soob.AN Gruz.SSR 23  
no.2:159-164 Ag '59. (MIRA 13:2)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Pred-  
stavлено членом-корреспондентом Академии V.S.Asatiani.  
(Body fluids) (Globulin)

BARNAD, B.; PILAT, L.

Current problems in silicosis. Med. int., Bucur. 10 no.1:125-132 Jan 58.  
(SILICOSIS  
pathol. diag. & ther.)

BARNAGYAN-GADZIYEVA, A.M.

Frequency of trichomoniasis in pregnancy and labor and its  
clinical significance. Akush.i .in. no.6:55-59 N-D '53.

(MLRA 7:1)

1. Iz Rostovskogo oblastnogo nauchno-issledovatel'skogo instituta  
akusherstva i ginekologii (direktor - kandidat meditsinskikh nauk  
F.S.Baranovskaya). (Pregnancy, Complications of) (Trichomoniasis)

BARNAGYAN-GADZIYEVA, A.M.

Prevention of habitual abortion. Vop. okh. mat. i det. 4 no.5 S-0 '59.  
(MIRA 13:1)

1. Iz nauchno-issledovatel'skogo instituta akusherstva i pediatrii  
(dir. - kand. med. nauk F.S. Baranovskaya, nauchnyy rukovoditel'  
sektora akusherstva i ginekologii - prof. P.Ya. Lel'chuk) Ministerstva  
zdravookhraneniya RSFSR.

(ABORTION)

BARNAGYAN-GADZIYEVA, A.M.

Treatment of threatened habitual abortion. Sov. med. 24 no. 2:91-  
94 F '60. (MIRA 14:2)

1. Iz Rostovskogo-na-Done respublikanskogo instituta akusherstva  
i pediatrii (direktor - kand.med.nauk F.S. Baranovskaya, nauchnyy  
rukovoditel' - prof. P.Ya. Lel'chuk).

(ABORTION)

BARNAGYAN-GADZIYEVA, A. M., CAND MED SCI, "ON THE PROBLEM  
OF PROPHYLAXIS AND THERAPY IN HABITUAL ABORTION." VORONEZH,  
1961. (MIN OF HEALTH RSFSR, VORONEZH STATE MED INST). (KL,  
3-61, 230).

390

1. KAL'YANOVICH, A.M., med. inv., ostromnik

secretion of oxytocin and megesteroids with the urine  
in treating tubal abortion. Zhurn. travm. trav. Rost. gos.  
med. inst. no.2:3,2-3/6 - 463.

Uterine fibromyoma and incomplete pregnancy. Ibid..379-385

(KIRA 17:1).

1. Iz nauchno-issledovatel'skogo instituta ukusheniy i perifervii  
(dir. kand. med. nacn P.S. burmistrov) - novyye sredstva v lechenii  
tubek perifervim sektsiyam kaud. med. nauch. prof. Bl. A. Gorbachev  
student - prof. P. Yu. G. Tikhon.

BARNABISHVILI, G. I.

*On gases evolved by ferrromanganese.* G. I. Barnabishvili. *J. Applied Chem.* (U. S. S. R.) II, 1580 (91) in French, 1961 (1968). The odor of various gases was detected near the Fe-Mn piles. The formation and the composition of evolved gases were investigated on various samples of crushed Fe-Mn, by placing 300 g. of the latter and 30 drops of water in a stoppered flask, provided with an outlet for the evolved gases, for 0.25-4 hrs. at 16-20°. In 4 hrs., 27.75 cc. of the gas mixt. was collected. Conclusions: The Fe-Mn, prepnd. in an elec. furnace, contained some admixts. (carbides,  $\text{Ca}_2\text{P}_2$ ) which in contact with an atm. moisture evolved  $\text{CH}_4$ ,  $\text{CH}_2$ ,  $\text{H}_2$  and  $\text{PH}_3$ . The Fe-Mn kept in a dry atm. did not evolve any gas and remained unchanged. A prolonged contact of the evolved (primary) gases with the surface of pulverized metal catalytically transformed them into  $\text{CH}_4$  and  $\text{H}_2\text{O}$ . The catalytic properties of the Fe-Mn depended on the inclusion of powerful catalysts such as Ni, the Fe-Mn itself being a poor catalyst. As the result of the above process and weathering, the metal gradually deformed into a powder. The danger of the above process in storing and transporting metal is pointed out. The poisoning effect of the evolved gases is not great, since their concn. is low.

A. A. Bulgacov

BARNAHAZI, Jeno

BARNAHAZI, Jeno, Dr.; ALDOR, Tibor

Significance and conditions of introduction of dietary nutrition in industrial plants. Nepegeszsegugy 38 no.7:178-183 July 57.

1. Kozlemeny az Orszagos Elelmezes- es Taplakozastudomanyi Intezetbol  
(Igazgato: Tarjan Robert dr.)

(INDUSTRIAL HYGIENE

food serv. in indust. plants in Hungary, dietary re-  
quirements & organiz. (Hun))

(DIETS

in food serv. in indust. plants in Hungary, requirements  
& organiz. (Hun))

BARNAKOV, N. V.

"Spring Subsurface Sowing of Winter Rye." Cand Agr Sci, Omsk Agricultural Inst, Omsk, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

NOSOVA, M.M.; BARNAKOVA, T.S.

Resistance of inlets and outlets of channels in the presence  
of a passing flow. From.aerodin. no.15:20-37 '59.

(MIRA 13:8)

(Fluid dynamics)

L 31168-66 EWT(1)/EWT(m)/EWP(t) IJP(c) JD  
ACC NR: AP6006820 SOURCE CODE: UR/0181/66/0080/02/0397/0401

AUTHOR: Barnanskiy, P. I.; Babich, V. M.

ORG: Institute of Semiconductors AN UkrSSR, Kiev (Institut poluprovodnikov AN UkrSSR)

TITLE: Anisotropy in the transverse magnetoresistance of n-Ge in strong pulsed magnetic fields

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 397-401

TOPIC TAGS: germanium semiconductor, magnetic anisotropy, strong magnetic field, pulsed magnetic field, magnetoresistance

ABSTRACT: Since previous works on transverse magnetoresistance of n-germanium have been devoted basically to the temperature characteristics of this effect, the authors attempt to fill a gap in the literature by studying the anisotropy of this phenomenon in strong pulsed magnetic fields. Magnetic fields of 20,000-400,000 oersted were generated by discharging a capacitance of 1800  $\mu$ f through a solenoid with an internal diameter of 5 mm. A double oscilloscope was used for the measure-

Card 1/2

L 31168-66  
ACC NR: AP6006820

ments. Antimony-doped germanium crystals with a resistivity of  $10.5 \Omega \cdot \text{cm}$  were studied at room temperature. Curves are given showing the transverse magnetoresistance as a function of magnetic field strength for fields parallel to directions [100], [111] and [110]. Data for the saturation values of the transverse magnetoresistance for fields directed along axis [111] are applied in formulas from classical theory. The parameter for anisotropy is found to be  $17 \pm 0.5$ . It is found that the parameter for anisotropy of relaxation time is 1.14. A table is given showing minimum quantizing magnetic field intensities. The authors thank Ye. G. Miselyuk for constant interest in the work and useful discussion of the results.  
Orig. art. has: 3 figures, 2 tables.

SUB CODE: 20/ SUBM DATE: 07Jul65/ ORIG REF: 014/ OTH REF: 023

Card 2/2

BARNARIN, V. V., SLOV'YEVA, I. M.

Infusoria

Variation in the respiratory rate at different stages of the life cycle of Bursaria truncatella (Infusoria Heterotricha). Uch.zap.Fed.inst.Gerts. 70, 1948.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

KULAGIN, V.K.; ISAKOV, L.P.

Change with distance in the propagation density of seismic energy for deep-focus earthquakes in the Pamirs and the Hindu Kush. Trudy Inst. seism. ztroi. i seism 10:96-107 '62.

(Pamirs—Seismometry)

(Hindu Kush—Seismometry)

(MIRA 16:5)

GAL', I.; BARNASH, N.

Strict observance of rules is a requirement for success. Pozh. delo  
5 no.5:5-6 My '59. (MIRA 12:6)  
(Motion-picture projection--Safety measures)

VELIKANOV, Karp Mironovich. Prinimali uchastiye: BARNASHEVA, G.K.;  
GOLDOBIN, M.A.; ZOLOTUKHINA, G.A.; KARANDASHOVA, K.S.;  
OL'KHOV, G.A.; SAVINA, V.N.; PAYERMAN, A.I. SKRELIN, V.I.,  
inzh., retsenzant; NIKIFOROV, A.F., dotsent, red.; BORODULINA,  
I.A., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Determining the economic efficiency of various methods for  
machining parts] Opradelenie ekonomicheskoi effektivnosti  
variantov mekhanicheskoi obrabotki detalei. Moskva, Mashgiz,  
1961. 211 p.  
(Metal cutting)

BARNAT, L.

"Revolving lathes" by Stanislaw Milos and Mieczyslaw Feld. Reviewed  
by L. Barnat. Mechanik 34 no.12:628-629 '61.

(Lathing) (Milos, Stanislaw)  
(Feld, Mieczyslaw)

*BARNATSKAYA, M.A.*

YERKIN, L.I.; LOBANOVA, L.I.; BARNATSKAYA, M.A.

Coking eastern coals with the use of stamping. Koks, i khim. no.2;  
23-30 '58.  
(MIRA 11:3)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal--Carbonization)

LITVINENKO, M.S., doktor tekhnicheskikh nauk, professor; TALALAYEV, G.K. inzhener; KULIKOV, V.O., inzhener; BARNATSKIY, I.I., inzhener.

Hydrogen sulfide removal from coke-oven gas and the production of sulfuric acid at the Makeyevka Coke Plant. Koks i khim. no.2: 48-57 '55. (MLRA 9:3)

1. Ukrainskiy uglekhimicheskiy institut (for Litvinenko); 2. Makeyevskiy koksokhimicheskiy zavod (for Talalayev); 3. Makeyevskiy metallurgicheskiy zavod (for Kulikov, Barnatskii).  
(Coke-oven gas) (Sulfuric acid)

BARNATSKIY, V.N. (Moskva); VINOGRADOV, Ye.V. (Moskva)

Gastric fistula with a device for registering bioelectric potentials of nerves and muscles. Fiziol. zhur. 49 no.8: 1004-1005 Ag '63. (MIRA 17:2)

BARNATEKII, V.N. (Moscow); VINOGRADOV, Ye.V. (Moscow)

Electrodes for recording the biopotentials of nerves in a  
chronic experiment. Fiziol. zhurn. 49 no. 11:1381-1382 N 16.  
(MIRA 17:8)

L 56480-65  
ACCESSION NR: AP5018603

UR/0219/64/058/012/0031/0035

AUTHOR: Barnatkiy, V. N.

TITLE: Analyser interaction during special excitation of the vestibular apparatus of the dog

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 58, no. 12, 1964,  
31-35

TOPIC TAGS: experiment animal, gastronenterology, animal physiology, neurology

ABSTRACT: The general reactions and in particular the motor activity of the stomach were observed in dogs subjected three - four times a week to swinging in a vertical plane at accelerations varied according to a sinusoidal pattern within the limits of 0.3g. Variants included swinging in the standing and lying positions and swinging suspended with the sinciput pointed upward and pointed downward. The visual analyser was excluded either completely (by darkness) or partially (so that the flashing of objects could not be distinguished). The reaction

Card 1/2

L 56460-65

ACCESSION NR: AF3018603

of the motor function of the stomach was recorded on a loop galvanometer. The gastric fistulae were placed according to Basov and electrodes were attached to the nerve trunks and the muscular layer of the stomach. The greatest suppression of the motor function occurred in swinging with the sinciput pointed downward, and the smallest suppression occurred with the dog in a lying position. Swinging in a lighted capsule porthole closed was borne easiest by the dogs. When the porthole was open, the animals took a position facing away from it but kept their eyes open.

Orig. art. has: 3 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 13Sep63

ENCL: 00

SUB CODE: LS

NR REF Sov: 005

OTHER: 000

JPRS

1963  
Cont 2/2

L 11368-67 EEC(k)-2/EWT(1)/FSS-2 TT/DD/GW/GD

ACC NR: AT6036491

SOURCE CODE: UR/0000/66/000/000/0056/0056

AUTHOR: Barnatskiy, V. N.; Kuznetsov, A. G.

39

ORG: none

TITLE: Interaction between the analyzers and the sympathetic component of motion sickness [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 56

TOPIC TAGS: biologic acceleration effect, coriolis acceleration, motion sickness, diagnostic medicine, vestibular analyzer, peripheral nervous system

ABSTRACT: The medical observations of Physician-Cosmonaut B. B. Yegorov on "Voskhod" have generated interest in the so-called autonomic manifestations arising in cosmonauts during weightlessness. Authors have studied the interaction of afferent systems during motion sickness in animals (dogs) caused by rocking. The criteria of autonomic disorders have been indices of salivation, vomiting and the motor function and electrical activity of the muscular layer and nerve stems of the stomach.

Card 1/2

L 11368-67

ACC NR: AT6036491

Under normal conditions, autonomic symptoms in animals have occurred during vertical oscillation at a frequency of 30/min and acceleration of 0.3 G (equals 1.3 G) after 10—15 min. These symptoms developed more rapidly in darkness, eliminating the "flicker" of objects weakened the rocking effect. The most pronounced effect was attained when the animal was rocked in the absence of any natural leg support. Here, signals from the visual mechanism and skeletal muscle proprioceptors had an inhibitory effect on vestibular function. Stimulation of mechano- and chemoreceptors of the stomachs led to more rapid development of motion sickness.

In dogs with upper jugular sympathetic nodes removed, motion sickness developed more quickly and was more pronounced. Injection of 10 ml of a 5% sodium bicarbonate solution into the blood of animals (according to Hasegawa) sharply weakened the effect of rocking which was traced for a year. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 2/2

BARNAUL'KO, V. A.

**USSR/ Miscellaneous**

**Card** : 1/1 Pub. 118 - 15/15

**Author** : Barnaul'ko, V. A.

**Title** : Some comments on the compendium, "Problems of Modern Physics - Radio-emission of the Sun and the Galaxies", the third series, edition 15, 1951.

**Periodical** : Usp. fiz. nauk 53/1, 157 - 158, May 1954

**Abstract** : Review and criticism of a compendium of problems of modern physics issued in 1951.

**Institution** : ...

**Submitted** : ...

JOFFE, I.S.; GLEBOVSKIY, D.N.; BARNAULOV, O.D.

Sulfonation and nitration of 2-(2-hydroxyphenyl)-benzimidazole.  
Zhar. ob. khim. 32 no. 7 2237-2239 1962. (MIRA 15:7)  
(Benzimidazole) (Sulfonation) (Nitration)

BARNAURE, V.

"The home laboratory of the Pribesti collectivists", p. 22 (Stinta Si Cultura, Vol. 5, no. 4, Apr. 1953, Bucuresti)

SO: Monthly List of East European Accessions, Vol. 2, No 9  
Romanian, Library of Congress, September 1953, Uncl.

NIKONOV, G.K.; BAHNAUSKAYTE, D.I.

Coumarins of Zosimia absinthifolia (Vent.) Link. Zhur. ob.  
khim 34 no.11:3854 N '64 (MRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarst-  
vennykh i aromaticheskikh rasteniy (VILAR).

LASHVILI, E. L.; BARNAVELI, T. T.; BIBILASHVILI, I. F.; GEGIASHVILI, G. A.;  
LASHVILI, A. K.; KOZAROV, R. Ye., KURIDZE, R. V.; KHALDEYeva, I. V.

Investigation of the properties of penetrating components at a depth of 200 mwe.

Report submitted for the 8th Intl. Conf, on Cosmic Rays (IUPAP), Jaipur, India,  
2- Dec 1963.

ACCESSION NR: AP4040897

S/0251/64/034/003/0545/0551

AUTHORS: Barnaveli, T. T.; Bibilashvili, M. F.

TITLE: Scintillation device for distinguishing wide atmospheric bombardments and the determination of the angle of inclination of their axes

SOURCE: AN Grum-Sch. Soobshcheniya, v. 34, no. 3, 1964, 545-551

TOPIC TAGS: scintillation counter, atmosphere, meson particle, particle shower/FEI-33 photomultiplier, RK-49 cable, OK-19 oscilloscope, 633P lamp

ABSTRACT: The authors described an apparatus for measuring the space distribution of  $\pi^+$ -meson components of wide atmospheric bombardments (ShAB). The apparatus consists of scintillation counters distributed with FEI-33 photomultipliers. An impulse from each of the photomultipliers is repeated by a cathode repeater on a 633P lamp, is branched, and again repeated at two cathode repeaters similar to the first. The impulse leaves one of the repeaters unchanged and leaves the other after being formed on a short segment of cable RK-49 of 40-cm length. A special signal-mixing device receives the signal from the cable, and then an amplifier circuit receives the impulses which are next displayed on oscilloscope OK-19 where a photographic device records them. Data were presented on the specifications of the

Cord 1/2

ACCESSION NR: AP4040897

devices used, including diagrams of the circuits involved. A coordinate system was defined whereby the angle of inclination of the axis of a ShAL could be determined. The technique of determining the angle involves interpreting data from the scintillation counters to locate and measure the ShAL front. Tests with 215 bombardments revealed close agreement with prior work by other authors. The authors predicted an accuracy of determination of inclination angle of  $\pm 7^\circ$  through proper use of the system. Orig. art. has: 10 equations and 5 figures.

ASSOCIATION: Institut fiziki, Tbilisi, AN Gruzinskoy SSR (Institute of Physics, AN Georgian SSR)

SUBMITTED: 20Nov63

ENCL: 00

SUB CODE: ES

NO REF SOV: 001

OTHER: 001

Cord 2/2

ACCESSION NR: AP4042889

S/0251/64/035/001/0059/0066

AUTHOR: Barnaveli, T. T., Bibilashvili, M. F., Dzhavrishvili, A. K., Grutelashvili, G. A., Kazarov, R. Ye., Kuridze, R. V. Khaldeyeva, I. V.,

TITLE: Investigation of the spatial distribution of mu-mesons in extensive atmospheric showers at a depth of 20 meters (water equivalent)

SOURCE: AN GruzSSR. Soobshcheniya, v. 35, no. 1, 1964, 59-66

TOPIC TAGS: meson, mu meson, atmospheric shower, cosmic ray, nuclear physics, atmospheric physics, meson spatial distribution

ABSTRACT: A study of the spatial distribution of the penetrating component of extensive atmospheric showers has been made in the underground laboratory of the Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of Physics of the Academy of Sciences of the Georgian SSR). The selected geometry of the experiment ensured measurement of the density of the mu-meson flux to a distance of 80-100 m from the shower axis. An attempt was made to compute the total quantity of penetrating particles with a minimum energy of 40 Bev and their contribution to the energy balance of the shower and to detect nonuniformities in the mu-meson flux. Determination of the mu-meson component characteristics at a

Card 1/5

ACCESSION NR: AP4042889

depth of 200 m (water equivalent) required determination of the direction of arrival of the axis of the shower because the distance between the mu-meson detectors underground and the axis of the shower recorded at the surface is dependent on the angle of inclination of the axis. Arrangement of the underground apparatus is shown in Fig. 1 of the Enclosure. Scintillation apparatus was used for detecting showers and the inclination of their axes. A pulse from the coincidence circuit of this apparatus triggers both the OK-19 oscillograph and a blocking generator controlling the operation of two modulators using TGI-1-130/10 thyratrons, one of which triggers the pulse hodoscopes situated on the surface around the building, as shown in Fig. 2 of the Enclosure; another thyratron controls the underground mu-meson detectors. The underground part of the apparatus consists of a system of eight hodoscopic detectors, each separated by lead blocks 10 cm thick. Each detector has an area of 0.5 m<sup>2</sup> and the total area of the underground detectors is 4 m<sup>2</sup>; each detector has a triple-coincidence circuit. During the 1,920 hours of operation the underground detectors were triggered 415 times. The mean dimension of showers (with respect to quantity of particles) was  $6 \times 10^5$ . Densities are given in a table. An expression is given for the distribution, and the results are compared with similar work done at the NIYaf MGU. Orig. art. has: 3 formulas, 6 figures and 1 table.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR, Tbilisi (Physics Institute, Academy of Sciences of the Georgian SSR)

Card - 2/5

BARNAVELLI, T.T.; BIRILAEVILLI, M.F.; GRIGORIASHEVIT, G.A.; LOMA RISCHVILI,  
A.K.; KAZAROV, L.Ya.; KURDZIEV, S.V.; KHALIREVNA, I.V.

Properties of the penetrating component of extensive air  
showers at a depth of 200 meter water equivalent. Izv. AN  
SSSR. Ser. fiz. 28 no.11;1894-1895 N 164. (MIRA 17;12)

1. Institut fiziki zemly.

BARNAVELT, T.T.; BIBLASHVILI, M.F.

Scintillation apparatus for the determination of extensive air showers and of the angle of inclination of their axes. Soob. AN  
Graz. SSM 34 no. 38545-551 Je '64  
(MIRA 1881)

1. Institut fiziki AN Gruzinskoy SSR, Tbilisi. Submitted November 20, 1963.

BARNAVELI, T.T.; BIBILASHVILI, M.P.; DZHAVRISHVILI, A.K.; GENBILASHVILI, G.A.;  
KAZANOV, R.Ye.; KURIDZE, R.V.; KHALDEYeva, I.V.

Study of the spatial distribution of  $\Lambda$ -mesons in extensive air  
showers at a depth of 200 meters of water equivalent. Soob. AN  
Gruz. SSR 35 no.1:59-67 Jl '64.

1. Institut fiziki AN GruzSSR, Tbilisi. Predstavлено академиком  
E.L. Andronikashvili. (MERA 17:10)

DZHAMBURIYA, G.D.; MELITAURI, K.N.; KHANTADZE, Sh.A.; SHOSHIASHVILI, N.P.;  
BARNAVELI, T.V. [translator]; BERIDZE, V.V., red.; BAKRADZE, D.S.,  
red.izd-va; DZHAPARIDZE, N.A., tekhn.red.

[Vardzia; guidebook] Vardzia; putevoditel'. Tbilisi, Izd-vo Akad.  
nauk Gruzinskoi SSR, 1957. 93 p. (MIRA 11:3)  
(Georgia--Description and travel-Guidebooks)  
(Kura Valley--Monasteries)

POZAR, H. ; BANAVIC, B.; JERIC, I.

Planning the electric-power generating system in Yugoslavia. p. 24.  
(Elektroprivreda, Vol. 10, No. 5/6, May/June, Beograd, Yugoslavia)

SO: Monthly List of East European Acquisitions (EMAL) Inc. Vol. 6, No. 8, Aug 1957. Uncl.

ACC NR: AP7001377

(A)

SOURCE CODE UR/0413/66/000/021/0048/0048

INVENTOR: Barnayev, N. P.

ORG: none

TITLE: Tank for quenching light-alloy sheet blanks. class 18, No. 187817

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 48

TOPIC TAGS: light metal alloy, alloy sheet blank, sheet blank heat treatment, quenching tank, sheet blank quenching

ABSTRACT: This Author Certificate introduces a tank for quenching light-alloy sheet blanks. To bring about forced submersion of blanks into the cooling medium and

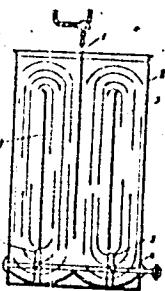


Fig. 1. Quenching tank

1 - Sheet blank; 2 - tank; 3 - partitions;  
4 - drive shaft; 5 - impeller.

Card 1/2

UDC: 669.71/72.018:621.784.6-41

ACC NR: AP7001377

thus to prevent their floating and warping, the tank is equipped with vertical partitions and a drive shaft carrying two impellers (see Fig. 1). Orig. att.  
has: 1 figure.

SUB CODE: 13/ SUBM DATE: 30Apr65/ ATD PRESS: 5110

[MS]

Card 2/2

ROSENZWEIG, S.; ELIAN, N.; COMANESCU, A.; BARNEA, M.

Study of the role of environment in the etiology and pathogenesis  
of rheumatic diseases; rheumatogenic factors in the coal industry.  
Probl. reumat., Bucur. 3:95-134 1955.

(RHEUMATISM

in workers of coal indust., etiol.)

(OCCUPATIONAL DISEASES

rheum. dis. in workers of coal indust., etiol.)

BHRNTR, 1962, 17

- (27)
- (26)
1. "Occupational Cancer of the Interventus Causes by the Bitumen and its Derivatives," Prof. P. KARV; pp 1-11.
  2. "Pollution of the Atmosphere in the Vicinity of an Electrical Thermopower Station," M. ZAMANOV et al. TURKISH-SPANISH Dr. Y. BULCA, Dr. S. AYDIN, Dr. E. ERDOGAN, Dr. M. FU and Dr. S. DILKOKSU; pp 13-14.
  3. "Notes on the Supply of Drinking Water in Rural Areas by Means of Small Central Supply Units (Microcentrifugal Unit)," Dr. F. STOHLER and Dr. H. WILLE; pp 19-25.
  4. "Experimental Investigations on the Toxicity of Certain Chemical Substances Used in the Manufacture of Ceramic Glass (Plastics), Dr. Silvia RABOLI, Dr. C. SANTORO, Mina IRENE and Rodica GHEORGHE; pp 26-30.
  5. "Investigations Concerning Influences of Ionizing Radiation on the Nutritive Value of Proteins and Lipids in Canned Bark," Dr. A. SPANU, Dr. H. RUGOZIN, Dr. Valeriu SPANU and LINEAR WORK PERFORMED at the NRP Institute of Nutrition and Public Health (Institute for Research and Economic Policy), Bucharest; pp 31-39.
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BARNEA, M.  
SURNAME, Given Names

Country: Rumania

Academic Degrees:

Affiliation: -not given-

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BARNEA, M.

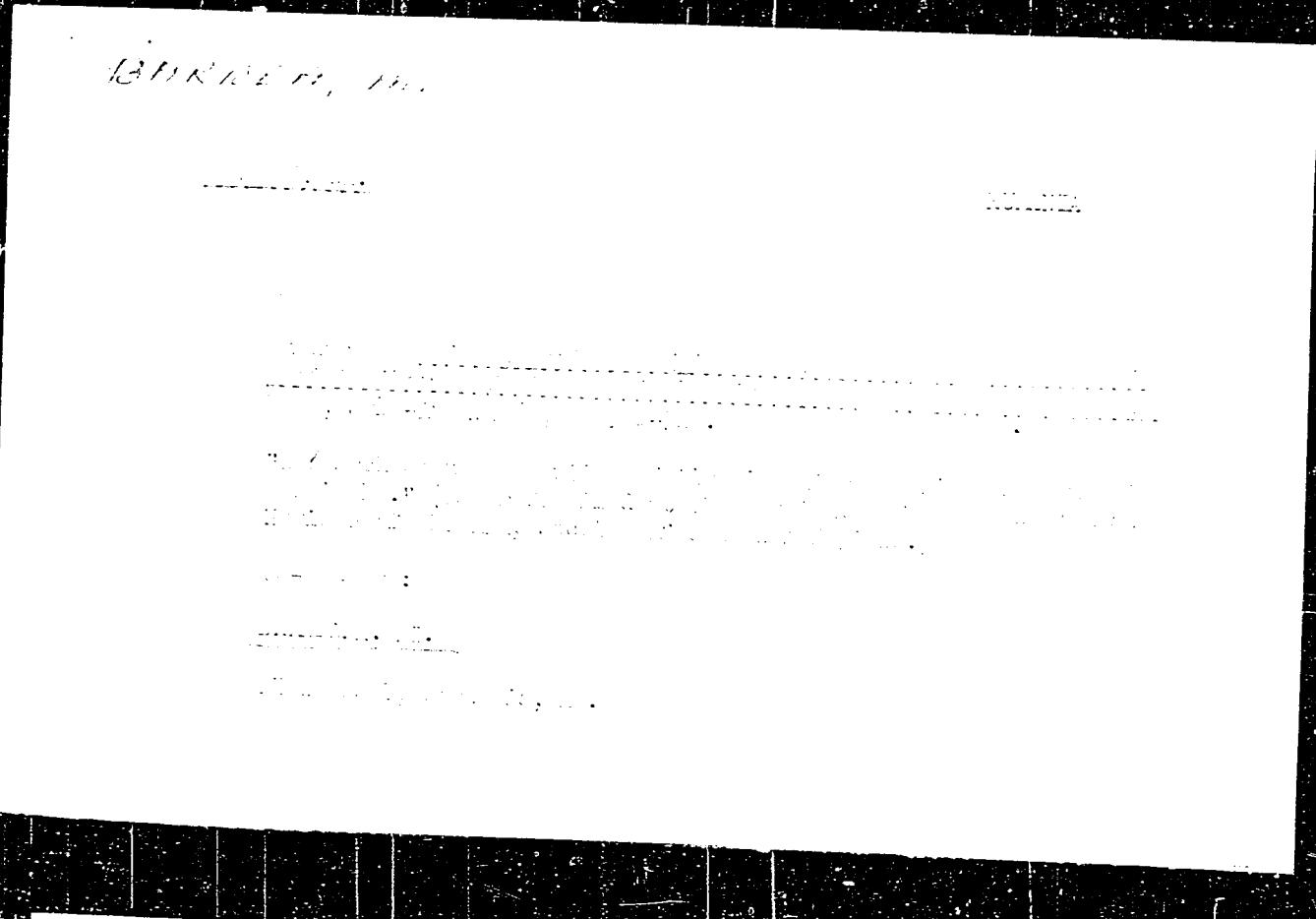
BARHAD, B.

SPORN, A.

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"APPROVED FOR RELEASE: 06/06/2000

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APPROVED FOR RELEASE: 06/06/2000

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no.2:327-333 Mr-Ap '60.

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we Wrocławiu, Kierownik: zast. prof. dr Wl Barnicki.  
(ACID BASE EQUILIBRIUM)  
(GASES blood)

## POLAND

BARNECKI, Wladyslaw; Docont, Dr., Director of the Chair of Physiopathology (Katedra Fizjopatologii), Veterinary Division (Wydzial Weterynaryjny), WSR [Wyzsza Szkola Rolnicza, Higher School of Agriculture] in Wroclaw

"Thyroid Activity in Cattle of Goiter-Endemic Regions of Lower Silesia."

Warsaw, Postepy Higieny i Nedycyny Doswiadczonej, Vol 17, No 1-2, 63, pp 161-206.

Abstract: First study in Poland of co-incidental endemic goiter in domestic animals, using slaughter-house cattle (cow's life most demanding on its thyroid) in the highly-endemic mountainous region and less endemic region of the Oder valley in Lower Silesia, comparing results with the as yet unpublished findings for the relatively goiter-free area of Lodz. Macroscopic examinations revealed nodular goiter in 6 percent, whereas histological findings showed diffuse goiter in 10 percent for the mountain and 5 percent for the lowland cattle examined. Serum PBI levels, lower for females, but not depending on age, were 53 percent lower than in the Lodz area. 59 refs: 20 Polish and 5 Eastern.  
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we Wrocławiu Kierownik: Zast. - prof. dr. W.Barnecki.  
(THYROID GLAND metab) (IODINE metab)  
(THIOURACIL pharmacol) (BROMIDES pharmacol) (VITAMIN A pharmacol)

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& denervated dogs (Ger))  
(BLOOD CIRCULATION, physiol.)

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S/205/62/002/004/002/014  
I015/I215

AUTHOR: Kozlov,Yu.P., Gorin,A.I., and Barnetskiy,F.

TITLE: Effect of some monomers on the biofunctions of  
irradiated yeast cells

PERIODICAL: Radiobiologiya,v.2, no.4, 1962, 539-542

TEXT: This study is the continuation of previous ones. *Saccharomyces* *vini* (strain Megri-139-3) were irradiated with a  $\gamma$ -*Co*<sup>60</sup>-400 (BMT-Co<sup>60</sup>-400) apparatus at a dose rate of 1250r/min. The total dose was 12.5-75cu. The survival rate after irradiation and treatment with monomers was determined by the number of colonies. The monomers were vinylpyrrolidone (VP) acrylonitrile (AN) and acrylamide (AA). The concentrations of the aqueous solutions of the monomers were 2%, 1% and 1% respectively, and had no effect on the divisions of the yeast cells, but they resulted in optimal concentrations for increasing the survival rate of the irradiated cells. A marked protective effect of these monomers against

Card 1/2

S/205/62/002/004/002/014  
I015/I215

Effect of some monomers....

irradiation was found when oxygen was present in the culture medium. The possible mechanism of this phenomenon is discussed. There are 4 figures and 1 table.

SUBMITTED: October 7, 1961

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red.; SYCHEV, N.G., red.

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Changes in the lipid metabolism and the activity of the LPO system as affected by ionizing radiation. N. V. B. Shul'zaya, I. G. Borisenko, and A. O. Pasternik (A. N. Bush Inst. Biokhimii i Med. Sci. D.S.S.R., Moscow). *Priroda* 21: 722-2 (1966).—The effect of Röntgen rays were studied on the lipoxidase of soy flour and on linoleic acid and on carotene in pure form and in combination with the simultaneous oxidation of mixt. of linoleic acid and carotene. The inactivation (87%) dose for dry lipoxidase was  $8.5 \times 10^4$  r, and in soy, 200,000 r. In soy, a 100% inactivation of lipoxidase required at  $40-50 \times 10^4$  r. The oxidation of linoleate proceeded in the form of a single-act reaction. On the basis of the results of the radiation inactivation of lipoxidase the mol. wt. of this enzyme was calcd. to be 120,000. It was demonstrated in the case of linoleic acid irradiation that its presence with carotene enhanced the oxidation of the latter. The inactivation of the enzymes and the enzymatic oxidation of the substrates of lipoxidase as a result of low-dose x-ray irradiation were of secondary significance in the changes of lipid metabolism.

S. S. Levine

RAZUMOVSKIY, S.D.; BARNITSKIY, I.N.; LYUTYY, V.P.; KIRILLOVA, L.P.

Hydrolysis of ethyl sulfates. Zhur.prikl.khim. 33 no.4:  
877-894 Ap '60. (MIRA 13:9)  
(Ethyl sulfate)

BARNO, F.

107-57-5-58/63

AUTHOR: Barno, F. (Odessa)

TITLE: A Tuning Socket Wrench (Klyuch dlya nastroyki)

PERIODICAL: Radio, 1957, Nr 5, p 58 (USSR)

ABSTRACT: A socket wrench for tuning coils can be made from a piece of plexiglass rod. A hole should be drilled in the center of the rod and a hot die should be pressed into the hole. The die should be cut according to the dimensions of the coil tuning slug.

AVAILABLE: Library of Congress

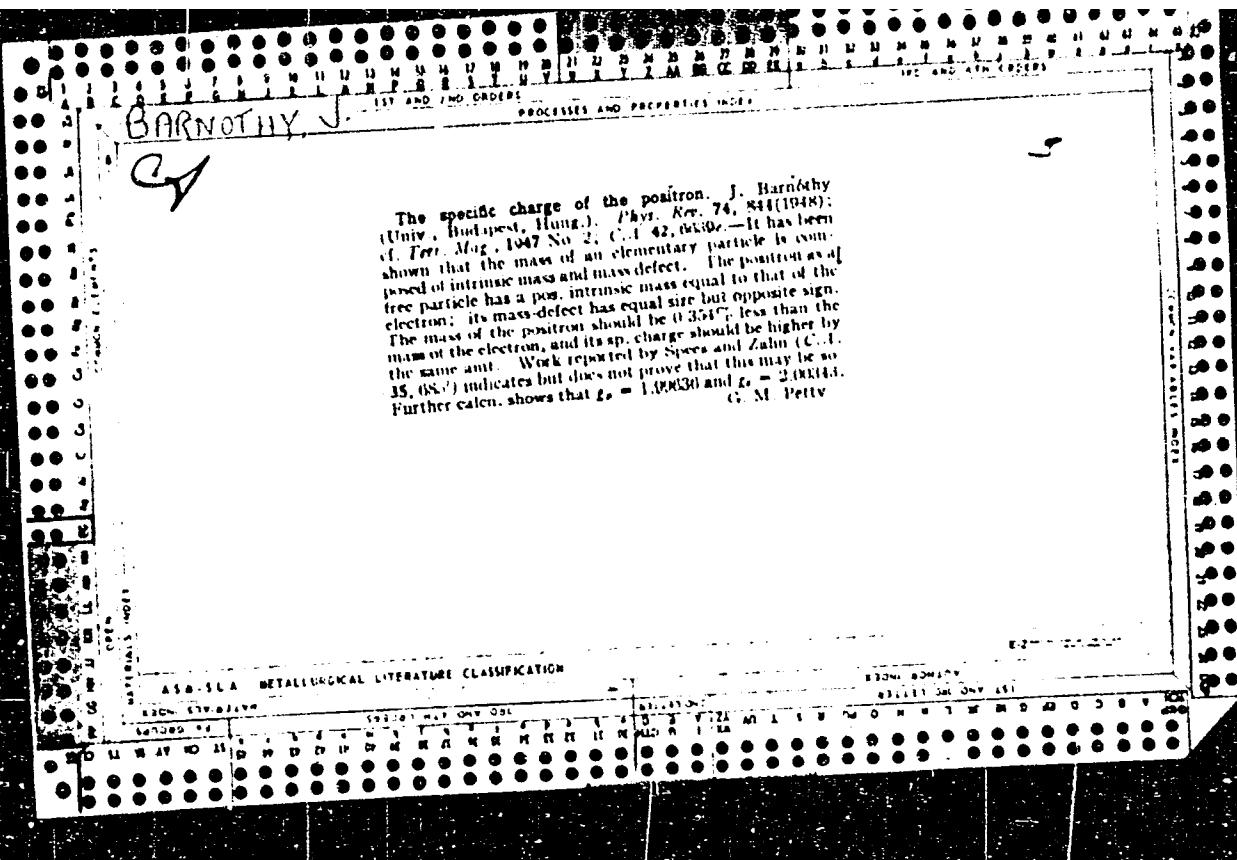
Card 1/1

✓  
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3

The intrinsic moment of the electron. J. Barnothy  
(Univ. Budapest, Hung.). *Phys. Rev.* **74**, 113 (1948).  
Foley and Kusch have detd. (C.I. 42, 2988) the g value  
of the electron to be  $g_s = 2.00244 \pm 0.00006$ . Barnothy  
has calcd. (Papers of Terrestrial Magnetism, Hungary,  
No. 2 (1947); Cowling, *Nature* **160**, 347 (1947)) the value  
 $g_s = 2.00343$ . This value is in agreement with the exptl.  
result, and it does not involve the existence of an intrinsic  
moment of the electron.  
G. M. Petty

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION



ALL BARNOTHY, J.

Nuclear

1422. Mesons of Different Masses, by J. Barnothy, *Nature* 161, p. 681, May 1, 1948.

Convincing evidence exists for the existence of mesons with different masses. The author states that these experimental facts are not satisfactorily explained by either of the current meson theories, but can be accounted for by a theory he has recently proposed (*Nature* 160, p. 847, 1947). He attempts to solve the problem of elementary particles with the help of four-dimensional spaces. He theorizes that electrons and protons may exist in unstable "meso-states" as well as in their normal stable states. The theory provides one solution for the meso-state of the electron (meso-electron) and eighty-two solutions for meso-protons. TID

B A R N O V , V. A.

WORK EXPERTISE      500/27/13

International Conference on the Non-Proliferation of Atomic Energy. Vol. 2.  
Geneva, 1958  
Bul. Sovetskikh Nauk: Poluchenie i primenenie izotopov (Reports  
of Soviet Scientists: Production and Application of Isotopes). Moscow,  
Atomizdat, 1977. 303 p. (Series: Edt: Trudy, vol. 6) 6,000 copies  
printed.

Eds. (title page): G.P. Parlyusov, Academician, and I.I. Novikov, Corresponding  
Member, USSR Academy of Sciences; Ed. (Imprint book): S.D. Andreyev;

Publ. Ed.: Z.D. Andreyev.

PURPOSE: This book is intended for scientists, engineers, physicists, and  
specialists engaged in the production and application of atomic energy to  
peaceful uses for science and technology and graduate students of  
higher technical schools where nuclear science is taught; and for the  
general public interested in atomic science and technology.

CONTENTS: This is volume 5 of a 6-volume set of reports delivered by Soviets  
scientists at the Second International Conference on the Peaceful Uses of  
Atomic Energy held in Geneva from September 1 to 15, 1958. Volume 6 contains  
12 reports on: 1) methods for the production of stable radioactive  
isotopes and their labeled compounds; 2) research results obtained  
with the aid of isotopes in the fields of chemistry, metallurgy, aeronautics  
and aviation, and 3) dosimetry of ionizing radiation. Volume  
6 was edited by S.V. Verbitsky, Candidate of Medical Sciences; Y.S.  
Pravdina, Candidate of Chemical Sciences; and V.Y. Sazon, Candidate of  
Medical Sciences. One copy/each for titles of volumes of the sets. References  
are given at the end of each article.

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Isotopes for Solving Problems in Hydrobiology (Report No. 2317) 335
27. Astrov, G.I. Radioisotopic Phenomena in the Larval Oyster (Report  
No. 2200) 397
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29. Arifov, D.A., I.D. Arshadova, V.A. Parusov, G.A. Dement'ev, G.A. El'mov,  
S.Z. Pashikashvili, L.R. Tchelidze, T.S. Chabashvili, and  
S.S. Shchekotov. Radiation Killing of Cells of the Paramecium-Fusilier  
Silhouette (Report No. 2323) 362
30. Rubin, B.A., and L.V. Melikyan. Studying the Effect of Ionizing Radiation  
on the Protoplasts of Potato Tubers With Respect to Tissue Storage  
(Report No. 2331) 375

*ANIFOV, V. A.*  
ANIFOV, V. A., BARKOV, V. A., GUMANOV, G. A., PASHINSKIY, S. Z. KLEYE, G. A.  
TAKHILIDZE, L. M., TSETSKHADZE, T. V., CHKHEIDZE, T. H., and SHENKOV, S. N.

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Paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13, Sept 56.

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Estrogens during delivery. Bratislavské lek. listy 44 no. 6: 266-272  
15 S '64

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v Košiciach veduci doc. K. Barňa, C. Sc.); Vedeckovýskumné labo-  
ratorium pri Porodnicko-gynekologickej klinike Lek. fak. Univer-  
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30. 6. 1964.

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P.J. Šafárika v Košiciach, (vedúci doc. dr. A. Růžička) a  
Katedra lekárskej chemie Lekárskej fakulty University P.J.  
Šafárika v Košiciach, (vedúci doc. inž. inom. lek. K. Ľurna,  
CSc.).

VISHNEVSKIY, A.S.; KHOZYKIN, A.V.; CHIVAMANIYA, A.Ye.; Prinzhorn  
uchastiyer TURANOVKA, A.S., vrach; BARNAEV, M.M., vrach;  
LIVITSKAYA, L.S., vrach; BULIK, V.S., vrach; KOMMADZINA,  
M.M., vrach

Clinical aspect and treatment of chronic pancreatitis at  
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Asymptotic representation of the spectral matrix of a fourth-order differential operator. Dokl. AN SSSR 162 no.6:1223-1225 Je '65.

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Asymptotic behavior of the spectral matrix of a differential  
equation of the fourth order. Dop. AN URSR no. 6:713-716 '61.

(MIRA 14:6)

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(Boundary value problems)

BARNOVSKAYA, M.O.

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D247/D301

AUTHOR: Barnovs'ka, M.O.

TITLE: Asymptotic behavior of the spectral matrix of a differential equation of the fourth order

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovidi, no. 6, 1961, 713 - 715

TEXT: This article is devoted to finding asymptotic formulae for the elements of the spectral matrix of a differential equation of the fourth order. Let  $(0, \ell)$  be a finite interval,  $q(t)$  a real summable function in the interval  $(0, \infty)$ . Let us consider the boundary problem

$$x^{IV} + q(t)x = \lambda x \quad (q(t) \in L(0, \infty)) \quad (1)$$

$$x(0) = x(\ell) = x''(0) = x''(\ell) = 0 \quad (2)$$

A theorem is then introduced where

Card 1/4

Asymptotic behavior of ...

S/021/61/000/006/002/009  
D247/D301

$$F_k(\lambda) = \int_0^\infty f(t) w_k(t, \lambda) dt \quad (k = 1, 2),$$

and  $w_1(t, \lambda)$  and  $w_2(t, \lambda)$  are solutions of Eq. (1). Then the following asymptotic formulae are valid for the elements of the spectral matrix  $\|\rho_{ij}(\lambda)\|$ :

$$\rho_{11}(\lambda) = \frac{2}{3\pi} (s^3 - s_0^3) + \int_0^\infty q(t) \ell_1(st) dt + o\left(\frac{1}{s^3}\right), \quad \rho_{12}(\lambda) = \frac{2}{5\pi} (s^3 - s_0^3) + \int_0^\infty q(t) \theta_1(st) dt + o\left(\frac{1}{s}\right).$$

$$\rho_{21}(\lambda) = \frac{2}{7\pi} (s^3 - s_0^3) + \int_0^\infty q(t) \theta_3(s) dt + O(s).$$

First of all particular solutions of (1) are found, Eq. (1) being represented as a system  $dX/dt = A_1 X$ .  $X$  being a four dimensional

Card 2/4

Asymptotic behavior of ...

S/021/61/000/006/002/009  
D247/D301

vector and  $A_1$  the matrix. Reduce the system to a L-diagonal form with the aid of the substitution  $X = TY$ , then find the solutions  $w_1(t, \lambda)$  and  $w_2(t, \lambda)$ . Looking for the Eigen values of the boundary problem with the aid of the requirement that the expression  $c_1 w_1(t, \lambda) + c_2 w_2(t, \lambda)$  should satisfy the second boundary condition, an equation for  $\lambda_n$  is obtained, resulting in

$$\delta = \frac{a_n}{n^3} + \frac{b_n}{n^4} + \frac{c_n}{n^5} + \dots$$

Expanding  $\sin(\delta)$  into a series and solving the equation one finds an asymptotic formula

$$s_n = \frac{\pi n}{l} + O\left(\frac{1}{n^s}\right) (s = \frac{1}{2}, \bar{\lambda}, \lambda > 0).$$

From the condition of normalization of eigenfunctions  
Card 3/4

Asymptotic behavior of ...

S/021/61/000/006/002/009  
D247/D301

$$C = \frac{1}{a_n}, \quad a_n^2 = \int_0^l \tilde{w}_n^2(t) dt,$$

is obtained where  $C = 1$  and  $s_n = \pi n/l$ . Having found  $C_1^*$  and  $C_2^*$  one Parseval's equation for a finite interval is given. Passing to the limit  $l \rightarrow \infty$  and  $\Delta s \rightarrow \infty$  in this equation the author obtains

$$\int_0^\infty f^2(t) dt = \int_{-\infty}^\infty \left[ 1 - \frac{1}{s^2} \int_0^\infty e^{-st} \sin(st) d\tau + O\left(\frac{1}{s^2}\right) \right] \times \\ \times [F_1^2(\lambda) dQ_{11}(\lambda) - 2F_1(\lambda) F_2(\lambda) dQ_{12}(\lambda) + F_2^2(\lambda) dQ_{22}(\lambda)] ds.$$

and thus establishes the asymptotic formulae for the elements of the spectral matrix. There are 3 Soviet-bloc references.

ASSOCIATION: Umans'kyy pedagogichenyi instytut (Institute of Pedagogics, Uman)

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Card 4/4

BARNSTEYN, S.L., podpolkovnik meditsinskoy sluzhby

Fountain for a drinking water container. Voen.-med. zhur. no.6:80  
Je '56. (MIRA 9:9)  
(DRINKING FOUNTAINS)